

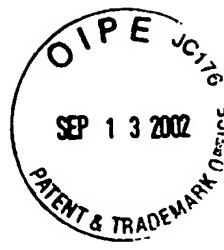
Inventors: Huang and Chadwick

Serial No.: 10/024,450

Filing Date: December 17, 2001

Attorney Docket: P-LJ 5101

USPTO Customer No. 23601 (858-535-9001)



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hRIZ	MMQNTTEVA ATETLAEVPE HVRLRCLPEEV RLFPASAVDTK RICWATKPI LKCKKFCGPV	60
rRIZ	MMQNTTEVA ATETLAEVPE HVRLRCLPEEV RLFPASAVDTK RICWATKPI LKCKKFCGPV	59
Consensus	MMQNTTEVA ATETLAEVPE HVRLRCLPEEV RLFPASAVDTK RICWATKPI LKCKKFCGPV	60.
hRIZ	MMMMWEVYY PNLCGMCIDA TOPEKGNMLR YNNWACSGEE QNLFPLEINR	120
rRIZ	MMMMWEVYY PNLCGMCIDA TOPEKGNMLR YNNWACSGEE QNLFPLEINR	119
Consensus	MMMMWEVYY PNLCGMCIDA TOPEKGNMLR YNNWACSGEE QNLFPLEINR	120
hRIZ	AIYYKTLKPI APGEELLWY NGEDNPEI AA AIEEERASAR SKRSPSKSRK	180
rRIZ	AIYYKTLKPI APGEELLWY NGEDNPEI AA AIEEERASAR SKRSPSKSRK	179
Consensus	AIYYKTLKPI APGEELLWY NGEDNPEI AA AIEEERASAR SKRSPSKSRK	180
hRIZ	KCNK1OD1QL K1SEPD1SA NMRSAECPK EDEPASA	240
rRIZ	KC1RTHPTOL K1SEPD1SA NMRSAECPK EDEPASA	239
Consensus	KC1RTHPTOL K1SEPD1SA NMRSAECPK EDEPASA	240
hRIZ	IPPAEPQPEPDERLAAA CEVNDCEEE EEEEDDDDDDE	300
rRIZ	IPPAEPQPEPDERLAAA CEVNDCEEE EEEEDDDDDDE	295
Consensus	IPPAEPQPEPDERLAAA CEVNDCEEE EEEEDDDDDDE	300
hRIZ	NENSKKEPEI RCEKPEDLL EEPKTTSEF LECCSEVTPA MOPRVEEA NGDV	160
rRIZ	NENSKKEPEI RCEKPEDLL EEPKTTSEF LECCSEVTPA MOPRVEEA NGDV	155
Consensus	NENSKKEPEI RCEKPEDLL EEPKTTSEF LECCSEVTPA MOPRVEEA NGDV	160

FIGURE 1A

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hRIZ	TKQGLERIMI	IIST	INIAF	KCKYCGK	FG	TOINRRRHER	RHE	GLKR	420
rRIZ	TKQGLERIMI	IIST	INIAF	KCKYCK	FG	TOINRRRHER	RHE	GLKR	415
Consensus	TKQGLERIMI	IIST	INIAF	KCKYCGK	FG	TOINRRRHER	RHE	GLKR	420
hRIZ	NDCK	SCENV	NSKD	SSPPS	LG	EDCLJ	NS	SEENCEVK	480
rRIZ	NDCK	SCENV	NSKD	SSPPS	LG	EDCLJ	NS	SEENCEVK	473
Consensus	NDCK	SCENV	NSKD	SSPPS	LG	EDCLJ	NS	SEENCEVK	480
hRIZ	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKGG	LG	POPPAE	QADAT	QNVVV	539
rRIZ	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKGG	LG	POPPAE	QAPPSS	QNVVV	533
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKGG	LG	POPPAE	QADAT	QNVVV	540
hRIZ	DDVYIMDIS	SNISENLNYY	IDGKIQTN	NN	TSNCDVIEME	SNSA	LYCIN	599	
rRIZ	DDVYIMDIS	SNISENLNYY	IDGKIQTN	NN	TSNCDVIEME	SNSA	LYCIP	593	
Consensus	DDVYIMDIS	SNISENLNYY	IDGKIQTN	NN	TSNCDVIEME	SNSA	LYCI	600	
hRIZ	CLLTPVTVEI	TQNIKRTQV	VTHDULKEPL	CTSN	KKR RTASPP	LPK	IKPET	SDPM	659
rRIZ	CLLTPVTVEI	TQNIKRTQV	VTHDULKEPL	CTSN	KKR RTASPP	LPK	IKPET	SDST	653
Consensus	CLLTPVTVEI	TQNIKRTQV	VTHDULKEPL	CTSN	KKR RTASPP	LPK	IKPET	SD	660
hRIZ	PSCSLSLPL	SIST	EVSF	HKEEVYLS	KLKQOLLQD	KLT	PAC	SA	719
rRIZ	PSCSLSLPL	SIST	EVSF	HKEEVYLS	KLKQOLLQD	KLT	PAC	SA	713
Consensus	PSCSLSLPL	SIST	EVSF	HKEEVYLS	KLKQOLLQD	KLT	PAC	SA	720

FIGURE 1B

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hRIZ	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFCKP	D CKAAMTDL	TSKK	KLES	779	
rRIZ	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFCKP	D CKAAMTDL	TSKK	KLES	773	
Consensus	SAPASMLPV	TSSRFKRRTS	SPPSSPOHSP	ALRDFCKP	D CKAAMTDL	L TSKK	KLES	780	
hRIZ	SDSPAWSLSC	ADERET	SPP CFDEYK	SKE WASS	FSSV CNQQLDLS	CVKQK	ECTO	839	
rRIZ	SDSPAWSLSC	ADERET	SPP CFDEYK	SKE WASS	FSSV CNQQLDLS	CVKQK	ECTO	833	
Consensus	SDSPAWSLSC	ADERET	SPP CFDEYK	SKE WASS	FSSV CNQQLDLS	CVKQK	ECTG	840	
hRIZ	KTPVWESVL	DLSVHKK-C	DSECKEKFES	PSVQPTCSAV	KKHKPTTCML	QKVLLNEYNC		899	
rRIZ	KTPVWESVL	DLSVHKK-C	DSECKEKFEN	PSVQPTCSAV	KKHKPTTCML	QKVLLNEYNC		889	
Consensus	KTPVWESVL	DLSVHKK-C	DSECKEKFKE	PSVQPTCSAV	KKHKPTTCML	QKVLLNEYNC		900	
hRIZ	10LPJENPAD	CTRSPSCKS	EAQDPD	LG P	SCFPA	PTV	ESPPMVM-PS	SPQ	958
rRIZ	10LPJENTRPE	CTRSPSCKS	PDTQDP	LG P	SSCSV	PTV	ESPPMVM-PS	SPQ	949
Consensus	10LPJENTRPE	CTRSPSCKS	OPDP	LG P	SSCSV	PTV	ESPPMVM-PS	SPQ	960
hRIZ	SCQLPPLU	TPSSPPCP	PVLTVATPPP	PLLPTVPLPA	PSSEASPHRC	PSP	SNTAO		1018
rRIZ	SCQLPPLU	TPSSPPCP	PVLTVATPPP	PLLPTVPLSH	PSSEASPOCC	PSP	SNTAO		1009
Consensus	SCQLPPLU	TPSSPPCP	PVLTVATPPP	PLLPTVPLP	PSSEASPOCC	PSP	SNTAO		1020
hRIZ	SPLPILSPTV	SPSPSPIPPV	EPUMSAASPG	PPTLSSSSSS	SSSS	SSSS	SSSS	SSSS	1078
rRIZ	SPLPILSPTV	SPSPSPIPPV	EPUMSAASPG	PPTLSSSSSS	SSSS	SSSS	SSSS	SSSS	1067
Consensus	SPLPILSPTV	SPSPSPIPPV	EPUMSAASPG	PPTLSSSSSS	SSSS	SSSS	SSSS	SSSS	1080

FIGURE 1C



Title: METHODS OF DETECTING AND TREATING MICROSATELLITE INSTABILITY

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LSA1SSVSS CDNLEASLPK	LSA1SSVSS CDNLEASLPK	LSA1SSVSS CDNLEASLPK
1SFKQEE	1SFKQEE	1SFKQEE
EN	EN	EN
ECCLKPKEEPO	ECCLKPKEEPO	ECCLKPKEEPO
SARHOO	SARHOO	SARHOO
WVQ	WVQ	WVQ
ETF	ETF	ETF
KNF	KNF	KNF
CN	CN	CN

VCESPFLSIK	DLTKHLSJHA	E.EWPFKCEFC	VQLFKJKTDL	SEHRLLHGVCNIFVC	NIFVC	SU	V	K	1198
VCESPFLSIK	DLTKHLSJHA	E.EWPFKCEFC	VQLFKJKTDL	SEHRLLHGVCNIFVC	NIFVC	SU	V	K	1186
VCESPFLSIK	DLTKHLSJHA	E.EWPFKCEFC	VQLFKJKTDL	SEHRLLHGVCNIFVC	NIFVC	SU	V	K	1200

KEFAFLCNLQ QIORDLHPDK	VCTHIEFESG TLRPQNFTDP	SKA-VEHMFS LPPEPLETSK	1258
KEFAFLCNLQ QIORDLHPCE	VCTHIEFESG TLRPQNFTDP	SKA-VEHMFS LPPEPLETSR	1246
KEFAFLCNLQ QIORDLHPD	VCTHIEFESG TLRPQNFTDP	SKA-VEHMFS LPPEPLETS.	1260

EEELNDSSE	ELYTTIKIMA	SCI1TKDPDV	RLGLNQHYP5	FKPPPFFQYHH	RNPMPGICVTA	1118
EEELNDSSE	ELYTTIKIMA	SCI1TKDPDV	RLGLNQHYP5	FKPPPFFQYHH	RNPMPGICVTA	1105
EEELNDSSE	ELYTTIKIMA	SCI1TKDPDV	RLGLNQHYP5	FKPPPFFQYHH	RNPMPGICVTA	1120

TNF-TTHN1P0	TFTTA1RCTK	CGKGVDNMP	LHKHILACAS	ASDKKKRTPK	KNPVPLKQT	1378
TNF-TTHN1P0	TFTTA1RCTK	CGKGVDNMP	LHKHILACAS	ASDKKKRTPK	KNPVPLKQT	1365
TNF-TTHN1P0	TFTTA1RCTK	CGKGVDNMP	LHKHILACAS	ASDKKKRTPK	KNPVPLKQT	1180

QPKNGVVLD	NSCKNAFRRM	GOPKRL	F	V	EL	KMSENKL	KLVALKKKNQ	LVQKAILOKN	1438
QPKNGVVLD	NSCKNAFRRM	GOPKRL	F	V	EL	KMSENKL	KLSALKKKKNQ	LVQKAILOKN	1425
QPKNGVVLD	NSCKNAFRRM	GOPKRL	F	V	EL	KMSENKL	KLALKKKKNQ	LVQKAILOKN	1440

Consensus
RRIZ

Consensus

Consensus

Consenso

Conseguim
hRIZ
rRIZ

Concensus
RRIZ

FIGURE 1D



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hRIZ	NSHIC PYC REFTYI GSLNKHAAFS CPKKPLSPPK	JKVSHSSKKQ	1498
rRIZ	DTSEPSHIC PYC REFTYI GSLNKHAAFS CPKKPLSPPK	JKVSHSSKKQ	1485
Consensus	E. SSHIC PYC REFTYI GSLNKHAAFS CPKKPLSPPK	JKVSHSSKKQ	1500
hRIZ	NSNSNHRRT ADPEIKMOSY QPLCKTRAR SFCPIQVRLP SSSFRSRSQNV	1558	
rRIZ	NSSECHRRRT ADPEIKMOSY QPLCKTRAR SFCPIQVRLP SSSFRSRSQNV	1545	
Consensus	NS...RRRT ADPEIKMOSY QPLCKTRAR SFCPIQVRLP SSSFRSRSQNV	1560	
hRIZ	SSSSLRNSS PIRMAKITHV EGKKPKAVAK	HSAQLSSKTR	1618
rRIZ	SSSSLRNSS PIRMAKITHV EGKKPKAVAK	HSAQLSSKS	1605
Consensus	SSSSLRNSS PIRMAKITHV EGKKPKAVAK	HSAQLSSK.	1620
hRIZ	LASKRTDRF NIKSRERSCG PTRSLQLAA AADLSENIRE DISAKQELKQ	SR.LHVRVQK	1678
rRIZ	LASKRTDRF NIKSRERSCG PTRSLQLAA AADLSESPRE DESARHELKQ	SR.LHVRVQK	1665
Consensus	LASKRTDRF NIKSRERSCG PTRSLQLAA AADLSESA. RE D. SA. ELKD.	SR.LHVRVQK	1680
hRIZ	FSYSLRLASR CSPPAAFYIT RQTRKVKA A ARQFOCPFFPK E-		1719
rRIZ	FSYSLRLASR CSSTAAEYIT RQTRKVKA A ATFFQCPFFPK EK		1707
Consensus	FSYSLRLASR C... A VIT RQTRKVKA A A EFOCPFFPK E		1722

FIGURE 1E

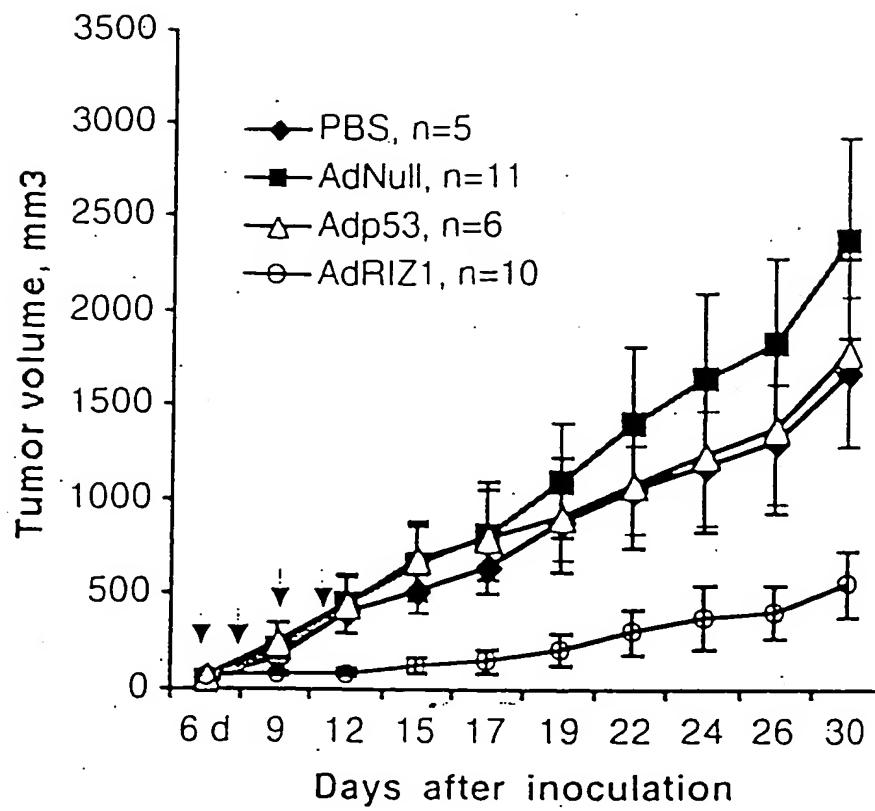


FIGURE 2

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FIGURE 3